Evaluating Immersive Experiences

Notes for the SIT-DP module: **Developing Immersive Applications**

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Who are we?

- Chek is a researcher in (Immersive) HCI

Centre for
IMMERSIFICATION

- Yet is the Head of Solutions Architect from Meta
- Sean is a Solutions Architect from Meta

- Mud runs a startup in blockchain games and AI, and experience in building XR games

- Jian Jie is a current Senior who has taken this module before.

[recap] Dimensions of RV Continuum

- EWK is how much system understands the real world
- RF is how realistic the assets are
- EPM is how interaction affords realism

https://doi.org/10.1117/12.197321

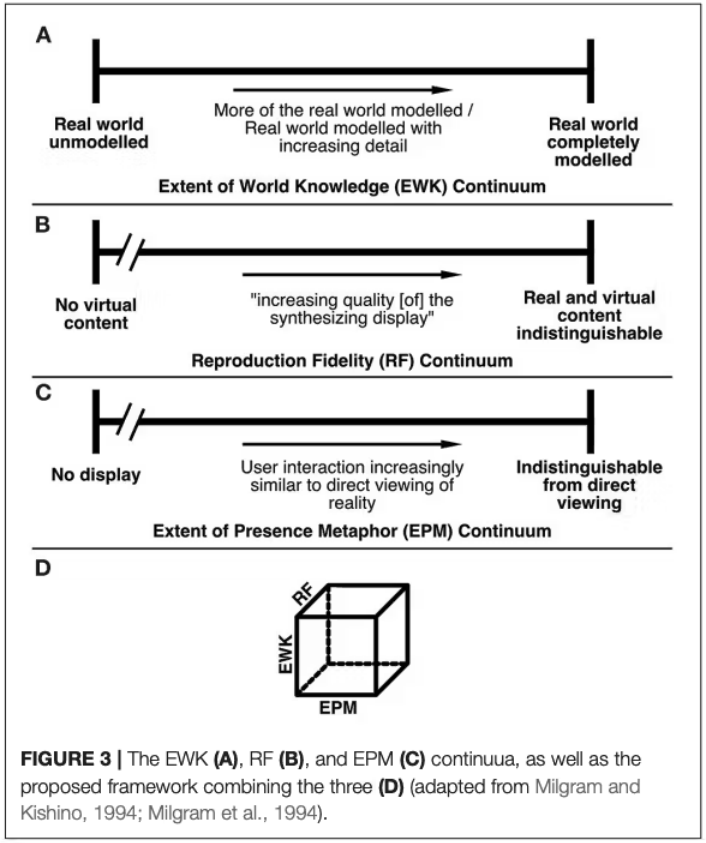

FIGURE 3 | The EWK **(A)**, RF **(B)**, and EPM **(C)** continuua, as well as the proposed framework combining the three **(D)** (adapted from Milgram and Kishino, 1994; Milgram et al., 1994).

[recap] Revisiting the RV Continuum

- combined the RF and EPM into IM (our THE article came before this 😅)
- added CO to represent the user
- note that this but one academic paper
- common perception of MR is different

https://doi.org/10.3389/frvir.2021.647997

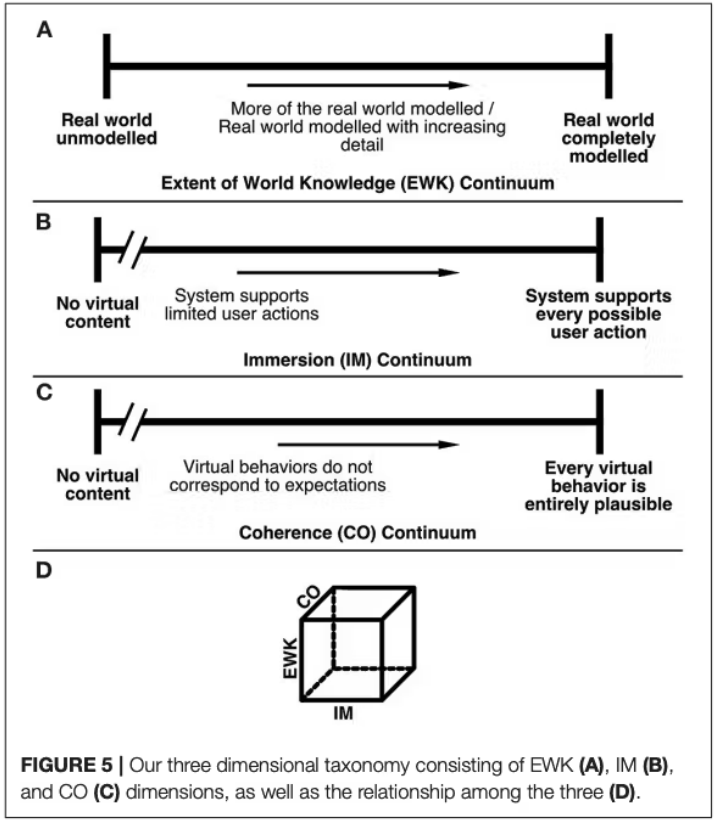

FIGURE 5 | Our three dimensional taxonomy consisting of EWK **(A)**, IM **(B)**, and CO **(C)** dimensions, as well as the relationship among the three **(D)**.

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Which of the following describes immersion from an experiential perspective?

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What experiential constructs were analysed in the user study in the paper on "Exploring Gameplay Experiences on the Oculus Rift"?

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What quantitative data was analysed in the user study in the paper on "Exploring Gameplay Experiences on the Oculus Rift"?

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What quantitative data was analysed in the user study in the paper on "Understanding User Experiences Across VR Walking-in-place Locomotion Methods"?

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What qualitative data was analysed in the user study in the paper on "Understanding User Experiences Across VR Walking-in-place Locomotion Methods"?

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What is/are the best type(s) of data to answer this research question?

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What are appropriate types of data to answer this research question?

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Which of the following is NOT a symptom of cybersickness?

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"This one feels dizzier than the previous one. "
- What dimension of cybersickness is this?

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"I find it very straining on my eyes to look at stuff in the scene after a short while" - What dimension of cybersickness is this?

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Which cybersickness questionnaire is best when I need to use the results to inform v2.0 development of my VR application?

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Which cybersickness questionnaire should I use when I need to compare my results with a pool of prior research studies from others?

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What is the type of experience being described here?

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What is the main affordance on a haptic glove for an experienced VR user?

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Which design provides the right affordance for a door that is meant to be pushed?

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Name one application that do you feel provided you with the best experience, and why?

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Audience Q&A

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